Amdt. dated June 21, 2007

Reply to Official Action of March 21, 2007

## Amendments to the Claims:

1. (Currently Amended) A method of transmitting information a communications network, comprising the steps of:

receiving a request to transmit the information, said request including a service constraint;

generating a requested transport constraint based on the service constraint;

parsing contents of a bit-field-encoded record corresponding to a link in the

communications network to determine whether the link is capable of supporting

supports the requested transport constraint, wherein the bit-field-encoded record

comprises a field having a length of at least two bits, the field being configured to

specify at least two bits specifying a supported transport constraint; and

if the requested transport constraint is compatible with the supported transport constraint,

transmitting the information over the link.

- 2. (Original) The method of claim 1, wherein the link is configured to carry an optical signal.
- 3. (Original) The method of claim 1, wherein the link is configured to carry an electrical signal.
- 4. (Original) The method of claim 1, wherein the link is configured to carry a wireless signal.
- 5. (Original) The method of claim 2, wherein the link is coupled to a phototonic cross-connect device.
- 6. (Original) The method of claim 5, wherein the link is DWDM-controlled.

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- 7. (Currently Amended) The method of claim 1, further comprising the step of identifying a set of links in the communications network eapable of supporting the requested transport constraint to form a new network topology.
- 8. (Original) The method of claim 7, wherein the new network topology is stored in a network topology database.
- 9. (Original) The method of claim 7, further comprising the step of selecting a subset of links from the new network topology to form a route for transmitting the information.
- 10. (Original) The method of claim 9, wherein the selecting step is carried out using a link state shortest path first (SPF) routing algorithm.
- 11. (Original) The method of claim 10, wherein the link state SPF routing algorithm is the Dijkstra SPF algorithm.
- 12. (Original) The method of claim 10, wherein the link state SPF routing algorithm is the Bellman-Ford Vector algorithm.
- 13. (Original) The method of claim 9, further comprising the step of storing the route in a routing table.
- 14. (Original) The method of claim 1, wherein the parsing step is carried out using a specified bit-field definition.
- 15. (Original) The method of claim 14, wherein the specified bit-field definition defines a class of information the link is configured to carry.

- 16. (Original) The method of claim 1, further comprising the step of storing the bit-field-encoded record in a link state database.
- 17. (Original) The method of claim 1, further comprising the step of storing the bit-field-encoded record in a plurality of link state databases, each link state database in the plurality of link state databases residing at a single node in the communications network.
- 18. (Original) The method of claim 1, wherein the bit-field-encoded record comprises at least one of:
  - a line-coding field;
  - a dispersion compensation technique field;
  - a frequency band field;
  - a wavelength identifier field;
  - a wavelength band identifier field; and
  - a fiber type field.
- 19. (Original) The method of claim 1, wherein the bit-field-encoded record comprises a bit-field encoded portion and a bit-mask-encoded portion.
- 20. (Original) The method of claim 1, wherein the length of the bit-field-encoded record is thirty-two bits.
- 21. (Original) The method of claim 1, wherein the length of the bit-field-encoded record is sixty-four bits.
- 22. (Original) The method of claim 1, wherein the length of the bit-field-encoded record is 128 bits.

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- 23. (Original) The method of claim 1, wherein the service constraint comprises a bandwidth requirement.
- 24. (Original) The method of claim 1, wherein the service constraint comprises a request to avoid using a specified node.
- 25. (Original) The method of claim 1, wherein the service constraint comprises a request to use a specified node.
- 26. (Original) The method of claim 1, wherein the service constraint comprises a request to avoid using a specified link.
- 27. (Original) The method of claim 1, wherein the service constraint comprises a request to use a specified link.
- 28. (Original) The method of claim 1, wherein the information comprises voice data.
- 29. (Original) The method of claim 1, wherein the information comprises video data.
- 30. (Currently Amended) A method for identifying a link for transmitting information in a communications network, comprising:

receiving a request to transmit the information, said request including a service constraint;

generating a requested transport constraint based on the service constraint;

parsing contents of a bit-field-encoded record associated with the link to determine

whether the link is capable of supporting supports the requested transport

constraint, wherein the bit-field-encoded record comprises a field having a length

of at least two bits, the field being configured to specify at least two bits

specifying a supported transport constraint; and

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comparing the requested transport constraint with the supported transport constraint.

- 31. (Original) The method of claim 30, further comprising the step of transmitting the information over the link if the requested transport constraint is compatible with the supported transport constraint.
- 32. (Original) The method of claim 30, wherein the link is configured to carry an optical signal.
- 33. (Original) The method of claim 30, wherein the link is configured to carry an electrical signal.
- 34. (Original) The method of claim 30, wherein the link is configured to carry a wireless signal.
- 35. (Original) The method of claim 32, wherein the link is coupled to a phototonic cross-connect device.
- 36. (Original) The method of claim 35, wherein the link is DWDM-controlled.
- 37. (Currently Amended) The method of claim 30, further comprising the step of identifying a set of links in the communications network eapable of supporting the requested transport constraint to form a new network topology.
- 38. (Original) The method of claim 37, wherein the new network topology is stored in a network topology database.

- 39. (Original) The method of claim 37, further comprising the step of selecting a subset of links from the new network topology to form a route for transmitting the information.
- 40. (Original) The method of claim 39, wherein the selecting step is carried out using a link state routing protocol.shortest path first (SPF) routing algorithm.
- 41. (Original) The method of claim 40, wherein the link state SPF routing algorithm is the Dijkstra SPF algorithm.
- 42. (Original) The method of claim 40, wherein the link state SPF routing algorithm is the Bellman-Ford Vector algorithm.
- 43. (Original) The method of claim 39, further comprising the step of storing the route in a routing table.
- 44. (Original) The method of claim 30, wherein the parsing step is carried out using a bit-field definition.
- 45. (Original) The method of claim 44, wherein the bit-field definition defines a class of information the link is configured to carry.
- 46. (Original) The method of claim 30, further comprising the step of storing the bit-field-encoded record in a link state database.
- 47. (Original) The method of claim 30, further comprising the step of storing the bit-field-encoded record in a plurality of link state databases, each link state database in the plurality of link state databases residing at a single node in the communications network.

- 48. (Original) The method of claim 30, wherein the bit-field-encoded record comprises at least one of:
  - a line-coding field;
  - a dispersion compensation technique field;
  - a frequency band field;
  - a wavelength identifier field;
  - a wavelength band identifier field; and
  - a fiber type field.
- 49. (Original) The method of claim 30, wherein the bit-field-encoded record comprises a bit-field encoded portion and a bit-mask-encoded portion.
- 50. (Original) The method of claim 30, wherein the bit-field-encoded record has a length of thirty-two bits.
- 51. (Original) The method of claim 30, wherein the bit-field-encoded record has a length of sixty-four bits.
- 52. (Original) The method of claim 30, wherein the bit-field-encoded record has a length of 128 bits.
- 53. (Original) The method of claim 30, wherein the service constraint comprises a bandwidth requirement.
- 54. (Original) The method of claim 30, wherein the service constraint comprises a request to avoid using a specified node.
- 55. (Original) The method of claim 30, wherein the service constraint comprises a request to use a specified node.

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- 56. (Original) The method of claim 30, wherein the service constraint comprises a request to avoid using a specified link.
- 57. (Original) The method of claim 30, wherein the service constraint comprises a request to use a specified link.
- 58. (Original) The method of claim 30, wherein the information comprises voice data.
- 59. (Original) The method of claim 30, wherein the information comprises video data.
- 60. (Currently Amended) A method of transmitting information over a communications network, comprising the steps of:
  - receiving a request to transmit the information, said request including a service constraint;

generating a requested transport constraint based on the service constraint;

identifying a set of network links in the communications network eapable of supporting the requested transport constraint by parsing contents of a plurality of bit-field-encoded records, each of the plurality of bit-field-encoded records including a field having a length of at least two bits, said field being configured to specify at least two bits specifying a supported transport constraint;

comparing the requested transport constraint to the supported transport constraint; and transmitting the information over a subset of the set of network links.

- 61. (Original) The method of claim 60, wherein at least one of the network links in the set of network links is configured to carry an optical signal.
- 62. (Original) The method of claim 60, wherein at least one of the network links in the set of network links is configured to carry an electronic signal.

- 63. (Original) The method of claim 60, wherein at least one of the network links in the set of network links is configured to carry a wireless signal.
- 64. (Original) The method of claim 60, further comprising the step of storing the bit-field-encoded record in a link state database.
- 65. (Original) The method of claim 61, wherein the set of network links is coupled to a plurality of phototonic cross-connect devices.
- 66. (Original) The method of claim 65, wherein at least one network link in the set of network links is DWDM-controlled.
- 67. (Original) The method of claim 60, further comprising the step of using the set of network links to generate a new network topology.
- 68. (Original) The method of claim 67, wherein the new network topology is stored in a network topology database.
- 69. (Original) The method of claim 67, further comprising the step of selecting the subset from the new topology to form a route for transmitting the information.
- 70. (Original) The method of claim 69, wherein the selecting step is carried out using a link state routing protocol.shortest path first (SPF) routing algorithm.
- 71. (Original) The method of claim 70, wherein the link state SPF routing algorithm is the Dijkstra SPF algorithm.

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- 72. (Original) The method of claim 70, wherein the link state SPF routing algorithm is the Bellman-Ford Vector algorithm.
- 73. (Original) The method of claim 69, further comprising the step of storing the route in a routing table.
- 74. (Original) The method of claim 60, wherein the parsing step is carried out using a specified bit-field definition.
- 75. (Original) The method of claim 74, wherein the specified bit-field definition defines a class of information the set of network links is configured to carry.
- 76. (Original) The method of claim 60, further comprising the step of storing each bit-field-encoded record in the plurality of bit-field-encoded records in a link state database.
- 77. (Original) The method of claim 60, further comprising the step of storing each bit-field-encoded record in the plurality of bit-field-encoded records in a plurality of link state databases, each link state database in the plurality of link state databases residing at a single node in the communications network.
- 78. (Original) The method of claim 60, wherein each bit-field-encoded record in the plurality of bit-field-encoded records comprises at least one of:
  - a line-coding field;
  - a dispersion compensation technique field;
  - a frequency band field;
  - a wavelength identifier field;
  - a wavelength band identifier field; and
  - a fiber type field.

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- 79. (Original) The method of claim 60, wherein each bit-field-encoded record in the plurality of bit-field-encoded records comprises a bit-field encoded portion and a bit-mask-encoded portion.
- 80. (Original) The method of claim 60, wherein each bit-field-encoded record in the plurality of bit-field encoded records has a length of thirty-two bits.
- 81. (Original) The method of claim 60, wherein each bit-field-encoded record in the plurality of bit-field encoded records has a length of sixty-four bits.
- 82. (Original) The method of claim 60, wherein each bit-field-encoded record in the plurality of bit-field encoded records has a length of 128 bits.
- 83. (Original) The method of claim 60, wherein the service constraint comprises a bandwidth requirement.
- 84. (Original) The method of claim 60, wherein the service constraint comprises a request to avoid using a specified node.
- 85. (Original) The method of claim 60, wherein the service constraint comprises a request to use a specified node.
- 86. (Original) The method of claim 60, wherein the service constraint comprises a request to avoid using a specified link.
- 87. (Original) The method of claim 60, wherein the service constraint comprises a request to use a specified link.
- 88. (Original) The method of claim 60, wherein the information comprises voice data.

- 89. (Original) The method of claim 60, wherein the information comprises video data.
- 90. (Currently Amended) A method of transmitting information over a communications network, comprising the steps of:
  - receiving a request to transmit the information, said request including a requested transport constraint;
  - parsing contents of a bit-field-encoded record corresponding to a link in the communications network to determine whether the link is capable of supporting supports the requested transport constraint, wherein the bit-field-encoded record comprises a field having a length of at least two bits, said field being configured to specify at least two bits specifying a supported transport constraint;

comparing the requested transport constraint to the supported transport constraint; and transmitting the information over the link if the requested transport constraint is compatible with the supported transport constraint.

- 91. (Original) The method of claim 90, wherein the link is configured to carry an optical signal.
- 92. (Original) The method of claim 90, wherein the link is configured to carry an electronic signal.
- 93. (Original) The method of claim 90, wherein the link is configured to carry a wireless signal.
- 94. (Original) The method of claim 90, further comprising the step of storing the bit-field-encoded record in a link state database.
- 95. (Original) The method of claim 91, wherein the link is coupled to a phototonic cross-

connect device.

- 96. (Original) The method of claim 95, wherein the link is DWDM-controlled.
- 97. (Currently Amended) The method of claim 90, further comprising the step of identifying a set of links in the communications network eapable of supporting the transport constraint to form a new network topology.
- 98. (Original) The method of claim 97, wherein the new network topology is stored in a network topology database.
- 99. (Original) The method of claim 97, further comprising the step of selecting a subset of links from the new network topology to form a route for transmitting the information.
- 100. (Original) The method of claim 99, wherein the selecting step is carried out using a link state routing protocol shortest path first (SPF) routing algorithm.
- 101. (Original) The method of claim 100, wherein the link state SPF routing algorithm is the Dijkstra SPF algorithm.
- 102. (Original) The method of claim 100, wherein the link state SPF routing algorithm is the Bellman-Ford Vector algorithm.
- 103. (Original) The method of claim 99, further comprising the step of storing the route in a routing table.
- 104. (Original) The method of claim 90, wherein each bit-field-encoded record comprises at least one of:

a line-coding field;

- a dispersion compensation technique field;
- a frequency band field;
- a wavelength identifier field;
- a wavelength band identifier field; and
- a fiber type field.
- 105. (Currently Amended) A system for transmitting information over a communications network, comprising:
  - means for receiving a request to transmit the information, said request including a service constraint;
  - means for converting the service constraint into a requested transport constraint;
  - means for parsing contents of a bit-field-encoded record corresponding to a link in the communications network to determine whether the link is capable of supporting supports the requested transport constraint, wherein the bit-field-encoded record comprises a field having a length of at least two bits, said field being configured to specify at least two bits specifying a supported transport constraint;
  - means for comparing the requested transport constraint with the supported transport constraint; and
  - means, responsive to said comparing means, for transmitting the information over the link if the requested transport constraint is compatible with the supported transport constraint.
- 106. (Original) The system of claim 105, wherein the link is configured to carry an optical signal.
- 107. (Original) The system of claim 105, wherein the link is configured to carry an electronic signal.

- 108. (Original) The system of claim 105, wherein the link is configured to carry a wireless signal.
- 109. (Original) The system of claim 105, further comprising means for storing the bit-field-encoded record in a memory area accessible to said parsing means.
- 110. (Original) The system of claim 109, wherein the link is coupled to a phototonic cross-connect device; and the memory area is associated with the phototonic cross-connect device.
- 111. (Original) The system of claim 110, wherein the link is DWDM-controlled.
- 112. (Original) The system of claim 109, wherein the memory area resides on a central node in the communications network.
- 113. (Original) The system of claim 105, further comprising means for identifying a set of links in the communications network to form a new network topology.
- 114. (Original) The system of claim 113, further comprising means for storing the new network topology in a network topology database.
- 115. (Original) The system of claim 113, further comprising means for selecting a subset of links from the new network topology to form a route for transmitting the information.
- 116. (Original) The system of claim 115, wherein the means for selecting the subset is configured to operate according to a link state shortest path first (SPF) routing algorithm.
- 117. (Original) The system of claim 116, wherein the link state SPF routing algorithm is the Dijkstra SPF algorithm.

- (Original) The system of claim 116, wherein the link state SPF routing algorithm is the 118. Bellman-Ford Vector algorithm.
- 119. (Original) The system of claim 115, further comprising means for storing the route in a routing table.
- 120. (Original) The system of claim 105, wherein the contents of the bit-field-encoded record are parsed according to a bit-field definition.
- 121. (Original) The system of claim 120, wherein the bit-field definition defines a class of information the link is configured to carry.
- 122. (Original) The system of claim 105, further comprising means for storing the bit-fieldencoded record in a plurality of link state databases, each link state database in the plurality of link state databases residing at a single node in the communications network.
- 123. (Original) The system of claim 105, further comprising means for storing the bit-fieldencoded record in a centralized link state database in the communications network.
- 124. (Original) The system of claim 105, wherein the bit-field-encoded record comprises at least one of:
  - a line-coding field;
  - a dispersion compensation technique field;
  - a frequency band field;
  - a wavelength identifier field;
  - a wavelength band identifier field; and
  - a fiber type field.

- 125. (Original) The system of claim 105, wherein the bit-field-encoded record comprises a bit-field encoded portion and a bit-mask-encoded portion.
- 126. (Original) The system of claim 105, wherein the bit-field-encoded record has a length of thirty-two bits.
- 127. (Original) The system of claim 105, wherein the bit-field-encoded record has a length of sixty-four bits.
- 128. (Original) The system of claim 105, wherein the bit-field-encoded record has a length of 128 bits.
- 129. (Original) The system of claim 105, wherein the service constraint comprises a bandwidth requirement.
- 130. (Original) The system of claim 105, wherein the service constraint comprises a request to avoid using a specified node.
- 131. (Original) The system of claim 105, wherein the service constraint comprises a request to use a specified node.
- 132. (Original) The system of claim 105, wherein the service constraint comprises a request to avoid using a specified link.
- 133. (Original) The system of claim 105, wherein the service constraint comprises a request to use a specified link.
- 134. (Original) The system of claim 105, wherein the information comprises voice data.

- 135. (Original) The system of claim 105, wherein the information comprises video data.
- 136. (Currently Amended) A system for determining a route to transmit information over a communications network, comprising:
  - a constraint processor configured to receive a service request to transmit the information, said request including a service constraint, and to convert the service constraint into a requested transport constraint associated with the service request;
  - a bit-field-encoded record comprising a field having a length of at least two bits, said

    field being configured to specify at least two bits specifying a supported transport

    constraint for a link; and
  - a routing processor configured to parse contents of the bit-field-encoded record to determine whether the link is capable of supporting supports the requested transport constraint.
- 137. (Original) The system of claim 136, wherein the link is configured to carry an optical signal.
- 138. (Original) The system of claim 136, wherein the link is configured to carry an electronic signal.
- 139. (Original) The system of claim 136, wherein the link is configured to carry a wireless signal.
- 140. (Original) The system of claim 137, further comprising a link state database; and wherein the bit-field-encoded record is stored in the link state database.
- 141. (Original) The system of claim 140, wherein:the link is coupled to a phototonic cross-connect device; andthe link state database resides in a memory area associated with the phototonic cross-

connect device.

- 142. (Original) The system of claim 141, wherein the link is DWDM-controlled.
- 143. (Original) The system of claim 136, the routing processor is further configured to select a set of links in the communications network to form a new network topology.
- 144. (Original) The system of claim 143, wherein the routing processor is further configured to store the new network topology in a network topology database.
- 145. (Original) The system of claim 143, wherein the routing processor is further configured to select a subset of links from the new network topology to form a route for transmitting the information.
- 146. (Original) The system of claim 145, wherein subset is selected according to a link state SPF (Shortest path first) routing algorithm.
- 147. (Original) The system of claim 146, wherein the link state SPF routing algorithm is the Dijkstra SPF algorithm.
- 148. (Original) The system of claim 146, wherein the link state SPF routing algorithm is the Bellman-Ford Vector algorithm.
- 149. (Original) The system of claim 145, further comprising a routing table; and wherein the route is stored in the routing table.
- 150. (Original) The system of claim 136, wherein the routing processor is further configured to parse contents of the bit-field-encoded record according to a specified bit-field definition.

- 151. (Original) The system of claim 150, wherein the specified bit-field definition defines a class of information the link is configured to carry.
- 152. (Original) The system of claim 136, further comprising a link state database; and wherein the bit-field-encoded record is stored in the link state database.
- 153. (Original) The system of claim 136, wherein the bit-field-encoded record is stored in a plurality of link state databases, each link state database in the plurality of link state databases residing at a single node in the network.
- 154. (Original) The system of claim 136, wherein the bit-field-encoded record comprises at least one of:
  - a line-coding field;
  - a dispersion compensation technique field;
  - a frequency band field;
  - a wavelength identifier field;
  - a wavelength band identifier field; and
  - a fiber type field.
- 155. (Original) The system of claim 136, wherein the bit-field-encoded record comprises a bit-field encoded portion and a bit-mask-encoded portion.
- 156. (Original) The system of claim 136, wherein the bit-field-encoded record has a length of thirty-two bits.
- 157. (Original) The system of claim 136, wherein the bit-field-encoded record has a length of sixty-four bits.

- 158. (Original) The system of claim 136, wherein the bit-field-encoded record has a length of 128 bits.
- 159. (Original) The system of claim 136, wherein the service constraint comprises a bandwidth requirement.
- 160. (Original) The system of claim 159, wherein the service constraint comprises a request to avoid using a specified node.
- 161. (Original) The system of claim 159, wherein the service constraint comprises a request to use a specified node.
- 162. (Original) The system of claim 159, wherein the service constraint comprises a request to avoid using a specified link.
- 163. (Original) The system of claim 159, wherein the service constraint comprises a request to use a specified link.
- 164. (Original) The system of claim 136, wherein the information comprises voice data.
- 165. (Original) The system of claim 136, wherein the information comprises video data.
- 166. (Currently Amended) A system for transmitting information over an communications network, comprising:
  - a constraint processor configured to receive a request to transmit the information, said request including a service constraint, and to convert the service constraint into a transport constraint;
  - a plurality of bit-field-encoded records, wherein each of the plurality of bit-field-encoded records includes a field having a length of at least two bits, the field being

eonfigured to specify at least two bits specifying a supported transport constraint; and

- a routing processor configured to parse contents of each bit-field-encoded record in the plurality of bit-field-encoded records to identify a set of links in the optical network eapable of supporting the transport constraint.
- 167. (Original) The system of claim 166, further comprising a transmitter for transmitting the information over a subset of the identified set of network links.
- 168. (Original) The system of claim 166, wherein at least one link in the set of links is configured to carry an optical signal.
- 169. (Original) The system of claim 166, wherein at least one link in the set of links is configured to carry an electronic signal.
- 170. (Original) The system of claim 166, wherein at least one link in the set of links is configured to carry a wireless signal.
- 171. (Original) The system of claim 166, further comprising a link state database; and the plurality of bit-field-encoded records is stored in the link state database.
- 172. (Original) The system of claim 171, wherein:
  the set of links is coupled to phototonic cross-connect devices; and
  the link state database resides in a memory area associated with the phototonic crossconnect device.
- 173. (Original) The system of claim 172, wherein: at least one of the links in the set of links is DWDM-controlled.

- 174. (Original) The system of claim 171, wherein the link state database resides on a central node in the communications network.
- 175. (Original) The system of claim 166, wherein the routing processor is further configured to select a subset of the set of network links to form a new network topology.
- 176. (Original) The system of claim 175, wherein the routing processor is further configured to store the new network topology in a network topology database.
- 177. (Original) The system of claim 175, wherein the routing processor is further configured to select a subset of links from the new network topology to form a route for transmitting the information.
- 178. (Original) The system of claim 177, wherein the subset is selected according to a specified link state SPF (Shortest path first) routing algorithm.
- 179. (Original) The system of claim 178, wherein the specified link state SPF routing algorithm is the Dijkstra SPF algorithm.
- 180. (Original) The system of claim 178, wherein the specified link state SPF routing algorithm is the Bellman-Ford Vector algorithm.
- 181. (Original) The system of claim 177, further comprising a routing table; and wherein the route is stored in the routing table.
- 182. (Original) The system of claim 166, wherein the contents of the plurality of bit-field-encoded records are parsed according to a specified bit-field definition.

- 183. (Original) The system of claim 182, wherein the specified bit-field definition defines a class of information the link is configured to carry.
- 184. (Original) The system of claim 166, wherein the plurality of bit-field-encoded records is stored in a plurality of link state databases, each link state database in the plurality of link state databases residing at a single node in the communications network.
- 185. (Original) The system of claim 166, wherein each bit-field-encoded record in the plurality of bit-field-encoded records comprises at least one of:
  - a line-coding field;
  - a dispersion compensation technique field;
  - a frequency band field;
  - a wavelength identifier field;
  - a wavelength band identifier field; and
  - a fiber type field.
- 186. (Original) The system of claim 166, wherein each bit-field-encoded record in the plurality of the bit-field-encoded records comprises a bit-field encoded portion and a bit-mask-encoded portion.
- 187. (Original) The system of claim 166, wherein each bit-field-encoded record in the plurality of bit-field-encoded records has a length of thirty-two bits.
- 188. (Original) The system of claim 166, wherein each bit-field-encoded record in the plurality of bit-field-encoded records has a length of sixty-four bits.
- 189. (Original) The system of claim 166, wherein each bit-field-encoded record in the plurality of bit-field-encoded records has a length of 128 bits.

- 190. (Original) The system of claim 166, wherein the service constraint comprises a bandwidth requirement.
- 191. (Original) The system of claim 166, wherein the service constraint comprises a request to avoid using a specified node.
- 192. (Original) The system of claim 166, wherein the service constraint comprises a request to use a specified node.
- 193. (Original) The system of claim 166, wherein the service constraint comprises a request to avoid using a specified link.
- 194. (Original) The system of claim 166, wherein the service constraint comprises a request to use a specified link.
- 195. (Original) The system of claim 166, wherein the information comprises voice data.
- 196. (Original) The system of claim 166, wherein the information comprises video data.